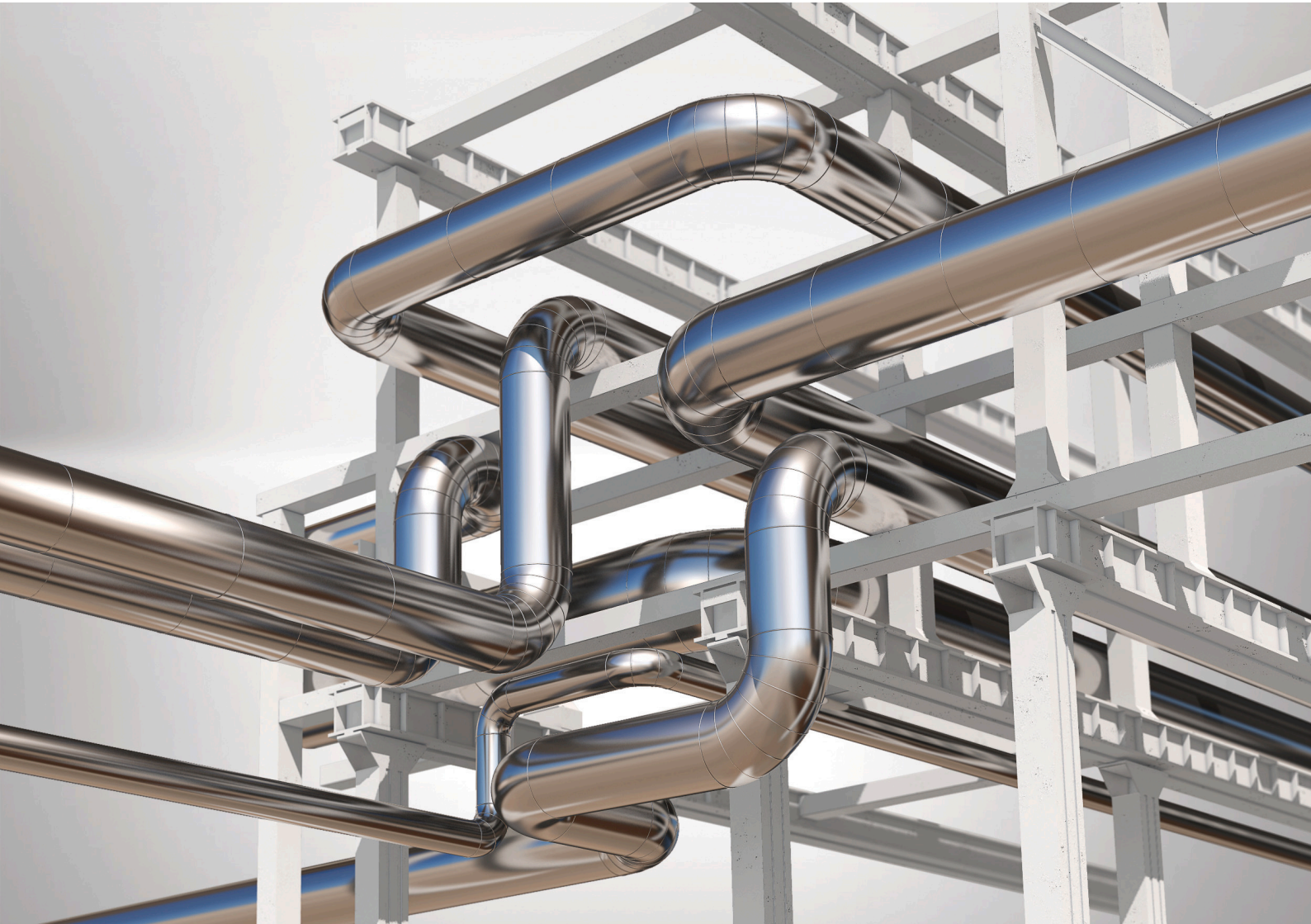


Okabell® ASD

**HIGH INTEGRITY ALUMINISED STEEL
HOT-DIP COATED**



- Excellent corrosion resistance
- Suitable for harsh environmental conditions
- Greater mechanical strength than aluminum allowing lighter gauges
- Zinc-free
- Hot-dip aluminum-silicon alloy protective coating on both sides
- High temperature oxidation resistance
- Abrasion resistance

Technical Data - Okabell ASD

Brief description	High integrity aluminized steel jacketing with hot-dip aluminum-silicon alloy coating on both sides.
Material type	240-270 g/m ² coating of Aluminium-silicon alloy having 9-11% silicone manufactured by hot dip coating process. Zinc-free, can be used safely with stainless steel. Free from the risk of liquid-zinc embrittlement which can cause stainless steel to fracture.
Colour	Top coat colour available in white, grey and silver. Please consult us about other colours you may require.
Material Special Information	Hot-dip aluminium silicon alloy coating mass: 240 g/m ² aluminized steel has hot-dip aluminium silicon alloy coating and organic coating on both sides: 25 micron on the topside and 7 micron on the reverse. Greater mechanical strength than aluminium, allowing lighter gauges to be used. Higher melting (650 °C - 660 °C) compared with zinc (419 °C). Mechanical strength of steel in combination with corrosion resistance of aluminium results in decreased maintenance cost
Applications	Low cost alternative to stainless steel and aluminium.
Special Features	Excellent corrosion resistance, far superior to pure zinc and zinc-aluminium alloy coatings. The hot-dip aluminium-silicon alloy coating protects the steel substrate by forming an inert barrier. Therefore cut edges or areas that may be damaged at a later date may corrode slightly but stabilize in short time, reducing the risk of further corrosion. This process is unlike zinc coatings which protect the steel substrate through sacrificial oxidation. Zinc salts formed during the coating process are constantly washed away, leaving the steel exposed and at risk of corrosive attack.
Manufacturing	Aluminized high integrity steel is manufactured to EN 1036:2004 and EN 10327:2004, employing quality assurance principles and management systems that are approved to ISO 9001: 2008. Aluminized steel conforms to other national and international standards, including ISO 5000, NFA 36/340, ASTM A463 M, JIS G3114 , and several proprietary specifications.
Safety and Environment	Safe to use with stainless steel. No risk of extensive pools of melted aluminium in a fire due to low aluminium content.
Remarks	<ul style="list-style-type: none"> • Non-Combustible • Zinc free • Heat resistance and reflectivity • Strength • Corrosion resistance • High temperature oxidation resistance • Abrasion resistance • Sag resistance

Property	Value/Assessment	Special Remark
Temperature Range		
Temperature Range ¹	max. service temperature + 120 °C min. service temperature - 50 °C	
Thermal Conductivity		
Thermal Conductivity	Depending on insulation used. System thermal performance depends on properties and configuration of individual layers.	
Water vapour diffusion resistance		
Water vapour diffusion resistance	Virtually vapour-tight	
Fire performance		
Reaction to fire	Non-combustible	
Other technical features		
Resistance to mechanical impact	Very good	
UV resistance	Very good, particularly suitable for outdoor applications.	
Nominal coating thickness	25 µm	EN 13523-1
Specular gloss (60)	30 %	EN 13523-2
Pencil hardness	F - H min	EN 13523-4
Flexibility: Reverse impact Minimum bend	18 J 3 T diameter, 0.5 T radius, no pick off	EN 13523-5 EN 13523-7
Adhesion: Cross Hatch (7.5mm)	100 %	EN 13523-6
Corrosion Resistance: Salt spray Humidity	1000 hrs 1000 hrs	EN 13523-8 EN 13523-25
Abrasion resistance (Taber)	20 g Loss at 250 revs, 1000 g load and CS 10 wheels.	EN 13523-16
Scratch resistance	2800 g	EN 13523-12
Minimum forming temperature	16 °C	

1. For temperatures above +125 °C or below -50 °C please contact our Customer Service Center to request for the corresponding technical information.

All data and technical information are based on results achieved under typical application conditions. Recipients of this information should, in their own interest and responsibility, clarify with us in due time whether or not the data and information apply to the intended application area. Installation instructions are available. Armacell takes every precaution to ensure the accuracy of the data provided in this document and all statements, technical information and recommendations contained within are believed to be correct. However, Armacell cannot guarantee that the data are 100 % accurate. Furthermore, minor deviations in colour, quality and dimensions are unavoidable and in most cases do not influence the performance of the product. Armacell expressly disclaims any and all liability in relation to any results obtained or arising from any use of the product or reliance on such information. No warranty of fitness for any particular purpose, warranty of merchantability or any other warranty, expressed or implied, is made concerning the goods described or the information provided herein. All the statements and technical information within this document should be read in conjunction with the customer's own specification. It is the responsibility of the recipient to inform all involved parties about the content of these documents. The described and recommended methods should be strictly followed. If there is a requirement to deviate from our recommendations, please contact us in advance to discuss possible suitable alternatives. Armacell will not be liable for any claim resulting from a failure to observe our specification or any other agreed solutions and from non-observance of the customer's specification.

